

17581
U.S. PTO

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PTO/SB/05 (05-03)
Approved for use through 04/30/2003. OMB 0651-0032
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE2859 U.S. PTO
10/789661UTILITY
PATENT APPLICATION
TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	HUA-001
First Inventor	Xiaohua Huang
Title	CAM CELLS AND DIFFERENTIAL SENSE CIRCUITS FOR CONTENT ADDRESSABLE MEMORY (CAM)
Express Mail Label No.	EL 980275995 US

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

ADDRESS TO:

Commissioner for Patents
Mail Stop Patent Application
P.O. Box 1450
Alexandria VA 22313-1450

1. ☒ Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)
2. ☒ Applicant claims small entity status.
See 37 CFR 1.27.
3. ☒ Specification [Total Pages 27]
(preferred arrangement set forth below)
 - Descriptive title of the invention
 - Cross Reference to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to sequence listing, a table, or a computer program listing appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
4. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 18]
5. Oath or Declaration [Total Sheets 2]
 - a. ☒ Newly executed (original or copy)
 - b. ☐ Copy from a prior application (37 CFR 1.63(d))
(for continuation/divisional with Box 18 completed)
 - i. ☐ **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s) name in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
6. ☐ Application Data Sheet. See 37 CFR 1.76

7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
 - a. ☐ Computer Reader Form (CRF)
 - b. Specification Sequence Listing on:
 - i. ☐ CD-ROM or CD-R (2 copies); or
 - ii. ☐ Paper
 - c. ☐ Statements verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

9. ☐ Assignment Papers (cover sheet & document(s))
10. ☐ 37 CFR 3.73(b) Statement ☐ Power of Attorney
(when there is an assignee)
11. ☐ English Translation Document (if applicable)
12. ☐ Information Disclosure Statement (IDS)/PTO-1499 ☐ Copies of IDS Citations
13. ☐ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)
15. ☐ Certified Copy of Priority Document(s)
(if foreign priority is claimed)
16. ☐ Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
17. ☒ Other: Cert. of Mailing

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76:

☒ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: 10/202,621

Prior application information:

Examiner

Art Unit:

For CONTINUATION OF DIVISIONAL APPS only; The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. CORRESPONDENCE ADDRESS

☒ Customer Number or Bar Code Label

003897

OR ☒ Correspondence address below

(Insert Customer No. or Attach bar code label here)

Name	Schneck & Schneck				
Address	P.O. Box 2-E				
City	San Jose	State	CA	Zip Code	95109-0005
Country	USA	Telephone	408/297-9733	Fax	408/297-9748

Name (Print/Type)	David Schneck	Registration No. (Attorney/Agent)	43,094
Signature	<i>David Schneck</i>	Date	02/ 27/2004

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

022704

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PTO/SB/17 (10-03)
Approved for use through 07/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE**FEE TRANSMITTAL
for FY 2004**

Effective 10/01/2003. Patent fees are subject to annual revision.

☒ Applicant claims small entity status. See 37 CFR 1.27**TOTAL AMOUNT OF PAYMENT** (\$)**385.00****Complete if Known**

Application Number	
Filing Date	
First Named Inventor	Xiaohua Huang
Examiner Name	
Art Unit	
Attorney Docket No.	HUA-001

METHOD OF PAYMENT (check all that apply)☒ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None☒ Deposit Account:Deposit
Account
Number
Deposit
Account
Name

19-0590

Schneck & Schneck

The Director is authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☒ Credit any overpayments☒ Charge any additional fee(s) or any underpayment of fee(s)☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.**FEE CALCULATION****1. BASIC FILING FEE**

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1001 770	2001 385	Utility filing fee	385
1002 340	2002 170	Design filing fee	
1003 530	2003 265	Plant filing fee	
1004 770	2004 385	Reissue filing fee	
1005 160	2005 80	Provisional filing fee	
SUBTOTAL (1)			(\$)385

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	8	-20** =	0	X		=	
Independent Claims	1	-3** =	0	X		=	
Multiple Dependent						=	

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1202 18	2202 9	Claims in excess of 20	
1201 86	2201 43	Independent claims in excess of 3	
1203 290	2203 145	Multiple dependent claim, if not paid	
1204 86	2204 43	** Reissue independent claims over original patent	
1205 18	2205 9	** Reissue claims in excess of 20 and over original patent	
SUBTOTAL (2)			(\$)0

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)**3. ADDITIONAL FEES**

Large Entity Small Entity

Fee Code (\$)	Fee Code (\$)	Fee Code (\$)	Fee Code (\$)	Fee Description	Fee Paid
1051 130	2051 65	1052 50	2052 25	Surcharge - late filing fee or oath	
1053 130	1053 130	1812 2,520	1812 2,520	Surcharge - late provisional filing fee or cover sheet	
1812 2,520	1812 2,520	1804 920*	1804 920*	Non-English specification	
1804 920*	1804 920*	1805 1,840*	1805 1,840*	For filing a request for <i>ex parte</i> reexamination	
1805 1,840*	1805 1,840*	2251 55	2251 55	Requesting publication of SIR prior to Examiner action	
2251 55	2251 55	2252 210	2252 210	Requesting publication of SIR after Examiner action	
2252 210	2252 210	2253 475	2253 475	Extension for reply within first month	
2253 475	2253 475	2254 740	2254 740	Extension for reply within second month	
2254 740	2254 740	2255 1,005	2255 1,005	Extension for reply within third month	
2255 1,005	2255 1,005	2401 165	2401 165	Extension for reply within fourth month	
2401 165	2401 165	2402 165	2402 165	Extension for reply within fifth month	
2402 165	2402 165	2403 145	2403 145	Notice of Appeal	
2403 145	2403 145	1451 1,510	1451 1,510	Filing a brief in support of an appeal	
1451 1,510	1451 1,510	1452 110	1452 110	Request for oral hearing	
1452 110	1452 110	1453 1,330	1453 1,330	Petition to institute a public use proceeding	
1453 1,330	1453 1,330	1501 1,330	1501 1,330	Petition to revive - unavoidable	
1501 1,330	1501 1,330	1502 480	1502 480	Petition to revive - unintentional	
1502 480	1502 480	1503 640	1503 640	Utility issue fee (or reissue)	
1503 640	1503 640	1460 130	1460 130	Design issue fee	
1460 130	1460 130	1807 50	1807 50	Plant issue fee	
1807 50	1807 50	1806 180	1806 180	Petitions to the Commissioner	
1806 180	1806 180	8021 40	8021 40	Processing fee under 37 CFR 1.17(q)	
8021 40	8021 40	1809 770	1809 770	Submission of Information Disclosure Stmt	
1809 770	1809 770	1810 770	1810 770	Recording each patent assignment per property (times number of properties)	
1810 770	1810 770	1801 770	1801 770	Filing a submission after final rejection (37 CFR 1.129(a))	
1801 770	1801 770	1802 900	1802 900	For each additional invention to be examined (37 CFR 1.129(b))	
1802 900	1802 900			Request for Continued Examination (RCE)	
				Request for expedited examination of a design application	

Other fee (specify)

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$)**SUBMITTED BY**

(Complete if applicable)

Name (Print/Type)	David Schneck	Registration No. (Attorney/Agent)	43,094	Telephone	(408) 297-9733
Signature	<i>David Schneck</i>	Date	February 27, 2004		

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

HUA-001

Certificate under 37 CFR 1.10 of Mailing by "Express Mail"

EL 980275995 US

"Express Mail" label number

February 27, 2004

Date of Deposit

I hereby certify that this correspondence is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the Assistant Commissioner for Patents, ~~Washington, D.C. 20231~~. Mail Stop Patent Application, P.O. Box 1450,

Alexandria, VA 22313-1450.


Signature of person mailing correspondence

Sally Azevedo

Typed or printed name of person mailing correspondence

Note: Each paper must have its own certificate of mailing by "Express Mail".